

WHAT IS CLAIMED IS:

- 1 1. A connector assembly incorporated into an electrical device
2 comprising:
3 a connector module having a connector port, a connector port holder and an
4 electrical connection between said connector port and a circuit in said electrical device,
5 wherein said connector port holder encloses said connector port and includes a locking tab;
6 a bracket incorporated into said electrical device which receives said
7 connector port holder, wherein said bracket has a port hole through which said connector port
8 is inserted and a locking tab hole through which said locking tab is inserted.
- 1 2. The connector assembly of claim 1 wherein said electrical device is a
2 computer and said connector port is used for computer input or output.
- 1 3. The connector assembly of claim 2 further comprising of plurality of
2 connector ports and locking tabs.
- 1 4. The connector assembly of claim 3 wherein said connector ports
2 include a USB port, a high speed communications port, an audio port and a video port.
- 1 5. The connector assembly of claim 1 wherein said connector port holder
2 is constructed of a hard, heat resistant plastic.
- 1 6. The connector assembly of claim 5 wherein said plastic is acrylonitrile-
2 butadiene-styrene or poly vinyl chloride overmolded over polyethylene.
- 1 7. The connector assembly of claim 5 wherein said connector port holder
2 is constructed of two halves.
- 1 8. The connector assembly of claim 7 wherein said connector port holder
2 halves are joined together around said connector port through ultrasonic welding.
- 1 9. The connector assembly of claim 1 wherein said locking tab is at the
2 end of a movable cantilever strip and includes an inclined leading edge.
- 1 10. The connector assembly of claim 1 wherein said bracket is constructed
2 of metal.

1 11. The connector assembly of claim 10 wherein said bracket includes a
2 metal extension which electromagnetically contacts to an adjacent electrical component.

1 12. The connector assembly of claim 10 wherein said connector port
2 holder includes a metal tab which electromagnetically contacts both said connector port and
3 said metal bracket.

1 13. A input/output connector assembly incorporated into a computer
2 comprising:

3 a plurality of connector modules each having a connector port for the input or
4 output of electrical signals, a connector port holder and an electrical connection between said
5 connector port and a circuit in said computer, wherein each said connector port holders
6 encloses a connector port and includes a plurality of locking tabs;

7 a metal bracket incorporated into said computer which firmly receives each
8 said connector port holder, wherein said bracket has a plurality of port holes through which
9 said connector ports are inserted and a plurality of locking tab holes through which said
10 locking tabs are inserted.

1 14. The input/output connector assembly of claim 13 wherein said
2 connector port holder is constructed in two halves from acrylonitrile-butadiene-styrene.

1 15. The input/output connector assembly of claim 13 wherein said
2 plurality of connector ports includes two USB ports, an IEEE 1394 high speed
3 communications port, an audio in port, an audio out port, a microphone port, an RCA video
4 port and an S-video port.

1 16. The input/output connector assembly of claim 13 wherein said bracket
2 includes a metal extension which electromagnetically connects to an adjacent electrical
3 component and a metal tab on at least one of said connector port holders which
4 electromagnetically contacts both said connector port and said metal bracket.

1 17. A method of assembling an input or output connector port onto a
2 computer comprising:

3 selecting a metal bracket which has a port hole for receiving a connector port
4 and a locking tab hole;

5 attaching an input or output connector port to one end of an electrical wire;
6 inserting said connector port into a plastic connector port holder which
7 includes a locking tab at the end of a movable cantilever strip;
8 inserting said connector port holder into said bracket so that said connector
9 port protrudes through said connector port hole and said locking tab protrudes through said
10 locking tab hole;
11 connecting said metal bracket to a chassis within said computer; and,
12 connecting the other end of said electrical wire to an appropriate circuit within
13 said computer.

1 18. The assembly method of claim 17 further comprising a plurality of port
2 holes, connector ports, connector port holders and locking tabs.

1 19. The assembly method of claim 18 wherein said connector ports include
2 a USB port, a high speed communications port, an audio port and a video port.

1 20. The assembly method of claim 18 wherein said connector port holders
2 are formed by injection molding said holder in two halves from a hard, heat resistant plastic,
3 placing said connection port attached to said wire between said two connector port holder
4 halves and then joining the two connector port holder halves together through ultrasonic
5 welding.

1 21. An input/output connector assembly constructed by the method of
2 claim 17.
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